

TOILET ACCESSORY KIT

Background Of The Invention

Field of the Invention:

This invention relates to bathroom accessories, and more particularly, to a toilet accessory kit containing a plunger, a combined brush and water jet cleaning implement, and storage means for one or more rolls of toilet paper.

5 Prior Art:

Residential and commercial toilets require frequent cleaning, and may also sometimes require clearance of a blockage which prevents proper drainage of water from the toilet. The most frequently used cleaning implement is a brush or similar tool which is used to scrub the toilet bowl. If the drain from the toilet becomes 10 blocked, a plunger is commonly used to alternately produce pressure and suction in the trap to dislodge the obstruction. Both brushes and plungers are available in a variety of shapes and sizes.

Although conventional brushes perform adequately for cleaning the surfaces of the toilet bowl, they are not adapted for cleaning the jets which introduce water 15 into the toilet beneath the rim of the bowl. In fact, these jets are rarely if ever cleaned by the average homeowner and may eventually become partially or completely blocked, thereby impeding the proper performance of the toilet.

A variety of prior art plungers are exemplified in U.S. patents 2066773, 2844826, 3021532, and 4458368. Patent 2066773 discloses a drain and 20 flushing apparatus comprising a cup-shaped member surrounded by a skirt 11. Water may be introduced into the interior of the cup-shaped member to generate pressure and flush out a clogged drain, while the outer skirt 11 serves to seal and hold the device to a sink basin or the like, by acting as a suction cup.

Patent 2844826 discloses a plunger having a specially configured bell 12 25 surrounding an inner guide portion 28. The inner guide portion comprises an

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extension from the open end of the bell 12 and serves to fit the device into openings of various size. In use, the guide and locking member 28 serves as the leading edge of the plunger, and is directed into the trap opening where it adjusts to the size and shape of the trap opening. Reciprocating force applied to the handle

5 20 alternately compresses and expands the corrugated wall of the bell 12 and applies pressure or suction forces upon the fluid in the trap opening to clear any obstruction.

Patent 3021532 discloses a plunger having a cup-shaped body portion 10 terminating in an annular flange 16. A flexible skirt 32 is attached to and extends

10 from the bottom edge of the cup. The skirt 32 is adapted to fit various trap openings, and may have an extended position as shown in figure 3, or a retracted position as shown in figure 4. In operation, to remove an obstruction from a trap in a flat sink or the like, the flexible skirt 32 is moved into its retracted position, and the plunger is used conventionally. When the surface is not flat, such as the

15 entrance to a trap in a toilet, the flexible skirt 32 is extended to its outer position and inserted into the trap as far as it will go. The skirt thus adapts to different size trap openings and effects a seal so that upon operation of the handle in the conventional manner, pressure can be generated to dislodge the obstruction.

Patent 4458368 discloses a conventional plunger member 14, with a large

20 circular or oval shaped shield 20 disposed on the plunger handle to protect the user against splashing caused by operation of the plunger.

Patents 4831669 and 5099527 also disclose conventional plunger constructions, and shields which may be applied to the handle to guard against splashing caused by use of the plunger.

25 Patents 5353442 and 5456356 disclose other plunger related tools and accessories. Patent 5353442 describes a rapid action plunger in which a handle and lever system is connected with a plunger-like device for extending and retracting the plunger-like device to remove an obstruction. Patent 5456356 describes a plunger accessory including a housing which encloses the plunger and

30 has an elongate handle portion upon which extra rolls of toilet paper may be stored.

Design patents Des. 161014 and Des. 272874, and patents 2464085, 2539838, 3429474 and 4033650 all disclose toilet brush holders of various styles and constructions.

Design patent Des. 356893 and utility patent 4432451 both disclose devices 5 for holding and storing toilet plungers. In addition, Des. 356893 discloses use of the device for holding a brush.

None of the patents noted above discloses a tool for cleaning the jets in a toilet bowl, nor do any of them disclose a toilet accessory kit comprising a holder with means for supporting a toilet brush, plunger, and extra rolls of toilet paper, 10 wherein a cover may be provided to enclose the brush, plunger, and toilet paper, thereby making the accessory kit aesthetically pleasing for storage in a bathroom. In prior art devices, the toilet brush and plunger are either stored in the open and in plain sight in a bathroom, detracting from the decor of the bathroom, or the brush and plunger are stored in a remote location, detracting from the 15 convenience of use.

Accordingly, there is need for a toilet accessory kit which is aesthetically pleasing so that it may be left in a bathroom without detracting from the decor thereof, and which includes all of the tools normally used in cleaning a toilet, including means for cleaning the jets in the toilet bowl, and a plunger with a 20 compact integrated splash shield.

Summary Of The Invention

In accordance with the present invention, a toilet accessory kit is provided which includes a toilet cleaning brush and jet cleaning tool, and a plunger, with a cover to make the kit aesthetically pleasing so that it may be conveniently stored 25 in the bathroom.

The holder comprises a one-piece molded base section with a receptacle in each end of the base member, on opposite sides of the divider, for holding a brush and a plunger, respectively. The receptacles include an upstanding handle attached thereto, and a cup in one end for receiving and holding the brush and jet cleaning 30 tool, and a cup-shaped recess in the other end for receiving and holding the

plunger. The handle is attached to the base member and is configured to receive and store one or more rolls of toilet paper.

The toilet cleaning brush and jet cleaning tool are incorporated into a single implement, and the implement is constructed to facilitate use of both the brush and the jet cleaning tool.

The plunger in the kit of the invention includes a central, generally spherically-shaped member with an open lower end that is shaped to fit various size openings, and a depending skirt surrounding the open lower end of the spherically-shaped member to effect a secondary seal against a surface surrounding the drain.

10 on which the plunger is being used, and to provide a shield to protect the user against splashing caused by operation of the plunger.

Brief Description Of The Drawings

The foregoing, as well as other objects and advantages of the invention, will become apparent from the following detailed description when considered in conjunction with the accompanying drawings, wherein like reference characters designate like parts throughout the several views, and wherein:

Fig. 1 is a top perspective view of the toilet accessory kit of the invention, showing the cover in dot-and-dash lines;

Fig. 2 is a longitudinal sectional view of the kit of figure 1, showing the handle, brush, plunger, cover, and a roll of toilet paper in dot-and-dash lines;

Fig. 3 is an enlarged fragmentary sectional view taken along line 3-3 in figure 2;

Fig. 4 is a top plan view of the holder of the kit of the invention, with the brush and plunger removed;

25 Fig. 5 is an enlarged fragmentary vertical sectional view of the plunger of the
kit of the invention;

Fig. 6 is an end view of the plunger of figure 5, looking into the open end of the plunger.

Fig. 7 is an enlarged fragmentary perspective view of the brush and jet
30 cleaning tool of the invention;

Fig. 8 is an enlarged view in side elevation of the jet cleaning instrument used with the tool in figure 7; and

Fig. 9 is a perspective view of the handle and divider member used in the holder of the invention.

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Detailed Description Of The Preferred Embodiments

Referring more specifically to the drawings, a toilet accessory kit according to the invention is indicated generally at 10 in figures 1 and 2. The kit includes a base member 11 having generally an elongate egg-shape in plan view and defining an enlarged substantially circular cavity 12 in one end. A cup-shaped receptacle

10 13 is integrally molded in the opposite end, and two pairs of parallel, spaced-apart flanges 14, 15 and 16, 17 are formed on the inner surfaces of the side walls of the base member, approximately midway between the opposite ends thereof, and oriented directly opposite one another to form opposing, vertically extending channels 18 and 19.

15 A combination divider and handle member 20 has a wide lower end portion 21 with opposite side edges 22 and 23 received in the channels 18 and 19 to form a dividing wall extending across the base member 11, separating it into the opposite end portions.

As seen best in figures 2 and 3, a tapered shoulder with a downwardly 20 facing ledge 24 is formed in each channel 18 and 19 for cooperation with an oppositely tapered shoulder having an upwardly facing ledge 25 on each of the opposite side edges of the lower portion 21 to lock the handle member and divider in place when it is inserted into the channels 18 and 19. Thus, the base member may be easily manufactured as a one-piece unit, with the handle member being 25 separately manufactured as a unit and then assembled to the base member.

The handle and divider member includes an elongate upstanding handle 26 for carrying the holder. Additionally, the handle is shaped and sized to receive thereover one or more rolls of toilet paper P for storing extra rolls.

A combined brush and jet cleaning tool 30 is supported in the cup-shaped 30 receptacle 13 in one end of the base member 11 and comprises a head 31 having

bristles 32 projecting from one side thereof and a tapered jet-cleaning pick 33 projecting from the other side. An elongate handle 34 extends at an angle "A" from the head 31. The angle "A" is selected so that the tool is particularly suited for using either the bristles 32 or the pick 33. In a preferred construction, for 5 example, the angle "A" may range from about 25° up to about 45°.

As seen in figure 8, the pick 33 includes an elongate tapered end 35 that may be inserted into the jets to clean them, and a threaded end 36 for threaded engagement in a mating opening (not shown) in an edge portion of the brush head 31. Suitably shaped surfaces 37 may be provided for manipulating the pick 33 10 with a suitable tool.

If desired, a reflective surface 40, such as a mirror, may be provided on the back of the brush head 31 to facilitate ease of use by reflecting an image of the jets so that the user can accurately position the pick when the tool is used.

A plunger 50 is supported in the end 12 of the base member 11 and 15 comprises a generally spherically-shaped member 51 having a concavo-convex open end 52 of reduced diameter, and a depending cylindrical skirt 53 extending downwardly around the open end 52 from approximately the midpoint of the spherical member 51. Annular flanges 54 and 55 are formed on the bottom ends of the concavo-convex section 52 and the skirt 53, respectively, and an elongate 20 handle 56 is attached to the upper, closed end 57 of the spherical member. The spherical member and skirt are integrally formed as one piece from any suitable material, such as rubber, commonly employed in the manufacture of plungers.

In use, the concavo-convex open end 52 of spherical member 51 is adapted to fit into and seal with various size openings, and the cylindrical skirt 53 is 25 adapted to seal against the surface surrounding the opening to serve as a splash shield and also to form a secondary seal between the plunger and the opening of the drain which is clogged.

In a preferred embodiment, a cover C is placed over the base member 11 in enclosing relationship to the handle member 20, brush 30 and plunger 50, with 30 only an end portion of the handle 26A exposed through the top of the cover to permit lifting and carrying of the kit.

While particular embodiments of the invention have been illustrated and described in detail herein, it should be understood that various changes and modifications may be made to the invention without departing from the spirit and intent of the invention as defined by the scope of the appended claims.

5 What is claimed is: